

Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w22)

Legend:	Core Qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
	Core Qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

Sample course plan A Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7))

Specialisation: Mechanical Engineering, Focus: Product Development and Production				Semester 4	Semester 5	Semester 6	Semester 7							
Week	Course	Form	Hrs/wk	Form	Hrs/wk	Form	Hrs/wk							
1	Chemistry			Electrical Engineering II: Alternating Current Networks and Basic Devices		Technical Thermodynamics II		Signals and Systems		Introduction to Control Systems		Foundations of Management		Advanced Internship AIW/ ES
2	Chemistry I+II	VL	4	Electrical Engineering II: Alternating Current Networks and Basic Devices	VL	Technical Thermodynamics II	VL	Signals and Systems	VL	Introduction to Control Systems	VL	Introduction to Management	VL	Advanced Internship AIW/ ES: SE 1
3	Chemistry I+II	HÜ	2	Electrical Engineering II: Alternating Current Networks and Basic Devices	VL	Technical Thermodynamics II	HÜ	Signals and Systems	GÜ	Introduction to Control Systems	GÜ	Management Tutorial	GÜ	Preparation
4				Electrical Engineering II: Alternating Current Networks and Basic Devices	GÜ	Technical Thermodynamics II	GÜ							Advanced Internship AIW/ ES: Internship-accompanying Seminar
5														
6														
7	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields			Fundamentals of Mechanical Engineering Design		Mathematics III		Fluid Dynamics		Measurement Technology for Mechanical Engineers		Integrated Product Development and Lightweight Design		
8	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	VL	3	Fundamentals of Mechanical Engineering Design	VL	Analysis III	VL	Fluid Mechanics	VL	Measurement Technology for Mechanical Engineers	VL	Integrated Product Development I	VL	
9	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	HÜ	2	Fundamentals of Mechanical Engineering Design	HÜ	Analysis III	GÜ	Fluid Mechanics	HÜ	Measurement Technology for Mechanical Engineers	HÜ	Development of Lightweight Design Products	VL	
10	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	GÜ	2	Fundamentals of Mechanical Engineering Design	HÜ	Differential Equations 1	VL			Measurement Technology for Mechanical Engineers	HÜ	CAE-Team Project	PBL	
11						Differential Equations 1	GÜ			Practical Course: Measurement and Control Systems	PR			
12						Differential Equations 1	HÜ							
13	Mathematics I			Technical Thermodynamics I				Computational Mechanics		Advanced Mechanical Design Project		Fundamentals of Production and Quality Management		
14	Mathematics I	VL	4	Technical Thermodynamics I	VL			Computational Multibody Dynamics	IV	Advanced Mechanical Design Project	PBL	Production Process Organization	VL	
15	Mathematics I	HÜ	2	Technical Thermodynamics I	HÜ			Computational Mechanics	GÜ			Quality Management	VL	
16	Mathematics I	GÜ	2	Technical Thermodynamics I	GÜ	Engineering Mechanics III (Dynamics)		Computational Structural Mechanics	IV					
17						Engineering Mechanics III	VL							
18						Engineering Mechanics III	GÜ							
19						Engineering Mechanics III	HÜ							
20				Mathematics II				Advanced Mechanical Engineering Design (part 2)		Production Engineering (part 1)		Production Engineering (part 2)		Bachelor Thesis
21	Computer Science for Engineers - Introduction and Overview			Mathematics II	VL			Advanced Mechanical Engineering Design I	VL	Production Engineering I	VL	Production Engineering II	VL	
22	Computer Science for Engineers - Introduction and Overview	VL	3	Mathematics II	HÜ	Advanced Mechanical Engineering Design (part 1)		Advanced Mechanical Engineering Design I	HÜ	Production Engineering I	HÜ	Production Engineering II	HÜ	
23	Computer Science for Engineers - Introduction and Overview	GÜ	2	Mathematics II	GÜ	Advanced Mechanical Engineering Design I	VL	Advanced Mechanical Engineering Design I	HÜ					
24						Advanced Mechanical Engineering Design I	HÜ	Mechanical Engineering: Design (part 2)		Production Technology		Computer Science for Engineers - Programming Concepts, Data Handling & Communication		
25						Advanced Mechanical Engineering Design I	HÜ	Team Project Design Methodology	PBL	Forming and Cutting Technology	VL	Computer Science for Engineers - Programming Concepts, Data Handling & Communication	VL	
26						Mechanical Engineering: Design (part 1)		Mechanical Design Project II	PBL	Fundamentals of Machine Tools	HÜ	Computer Science for Engineers - Programming Concepts, Data Handling & Communication	GÜ	
27	Engineering Mechanics I (Stereostatics)			Engineering Mechanics II (Elastostatics)		Embodiment Design and 3D-CAD	VL	Fundamentals of Materials Science (part 2)		Fundamentals of Machine Tools	HÜ			
28	Engineering Mechanics I	VL	2	Engineering Mechanics II	VL	Introduction and Practical Training	VL	Fundamentals of Materials Science II	VL					
29	Engineering Mechanics I	GÜ	2	Engineering Mechanics II	GÜ	Mechanical Design Project I	PBL							
30	Engineering Mechanics I	HÜ	1	Engineering Mechanics II	HÜ									
31														
32														

Non-technical Courses for Bachelors (from catalogue) - 6LP

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.

